

## Danaos implementation over Broadband systems

by

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## Project Goals

- **Simplify Onboard IT systems**
  - *Installation, maintenance, reliability*
- **Real time fleet management concept**
  - *Bring the vessel on line*
  - *Integrate processes including vessel officers*
  - *Monitor officers performance*
- **Corporate mentality**
  - *Sharing information / decision making*
- **On going crew training**
- **Ousourcing**
  - *Routine work wherever is cheaper*
  - *Professional work where the expertise lies*
- **Control communication costs**
- **Improve seamen telephone and e-mail services**



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### The challenge

- **New concept**
- **New equipment to be installed fleet wide**
- **New Requirements**
- **Supporting VSAT and conventional systems**
- **User training**
- **Limited time**

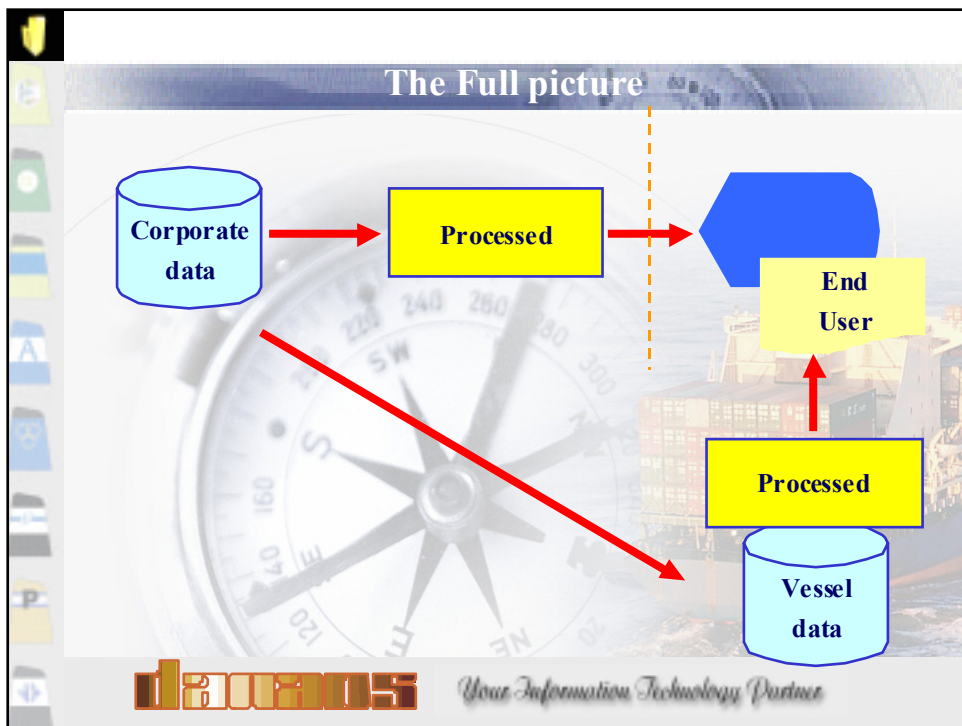
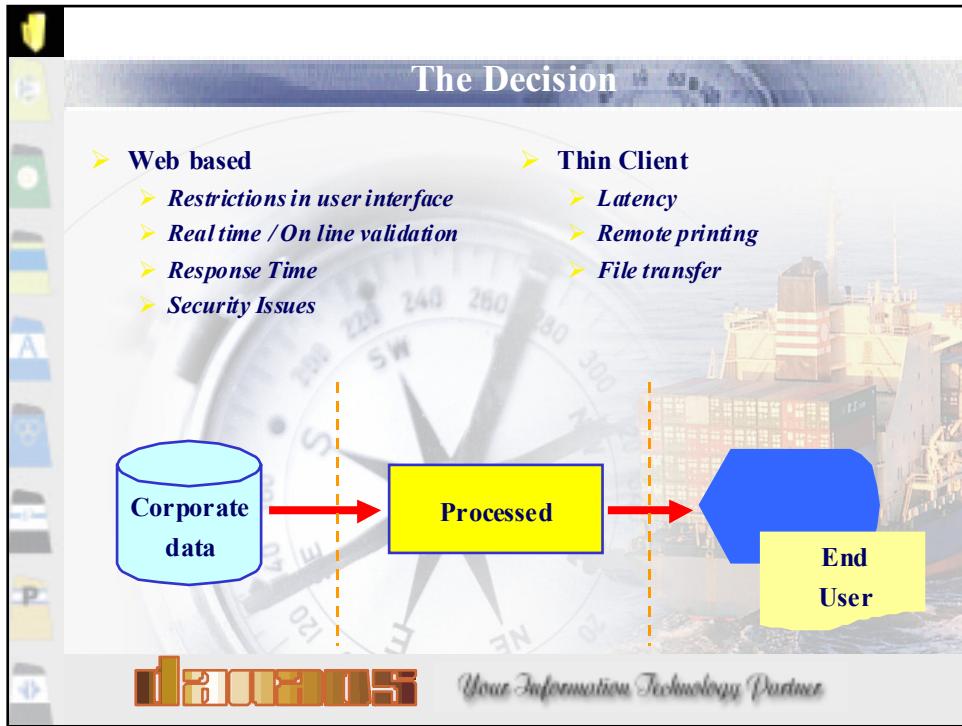
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### The technical constrains

- **64 Kb/s bandwidth**
- **To support up to four concurrent users**
- **Restricted Internet access**
- **Separate bridge/master and crew phone lines**
- **Remote training support**
- **Bridge monitoring**
- **Tele conference**

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## Security Issues

- Restricting access to sensitive data
- Task allocation
- User Alerts
- User Key Performance Indicators (KPIs)
- Access corporate networks
- Internet access
- Allowing private

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## The Problems

- Blockage zone
  - Site Survey
  - More satellites
  - Auto switching to new
- Logistics

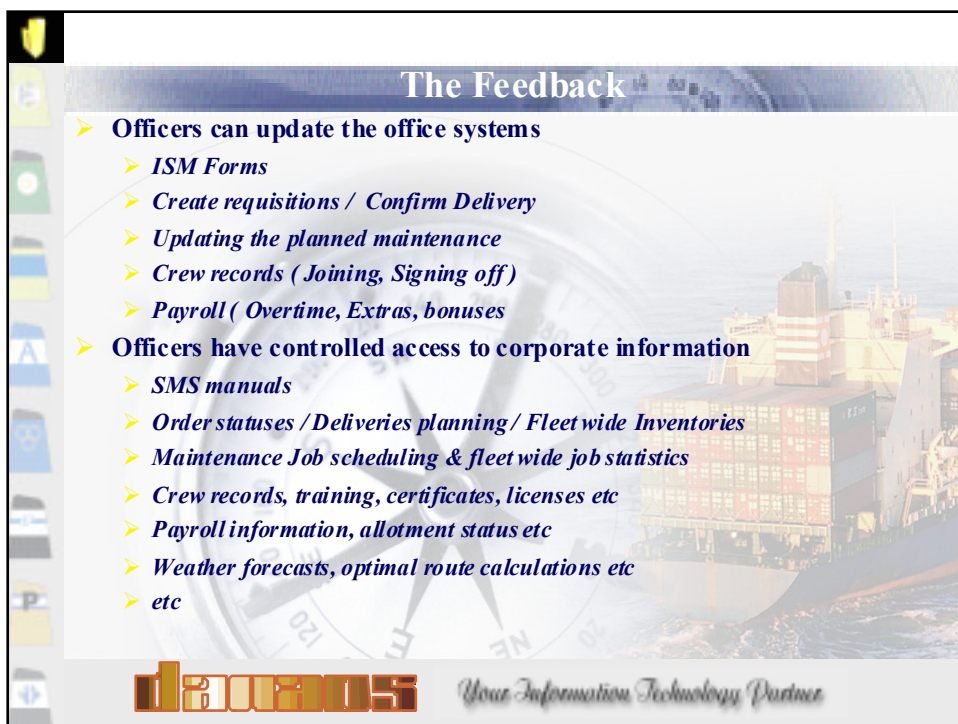
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## The Feedback


- **Quality and performance of the system found excellent**
- **Coverage and availability was impressive**
- **Crew was supportive to new system specially when realized**
  - *Low cost phone call rates. Two private concurrent voice lines*
  - *Internet and e-mail capabilities*
- **Access to central systems for four users was excellent**  
( *Five concurrent users found acceptable for light applications* )
- **Access to Internet was satisfactory**
- **Equipment is simple**
- **No need for communication cost monitoring**
  
- **Installation required less than 1 day**
- **We have lost connection several times when antenna in blockage zone.**


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## The Feedback

- **Officers can update the office systems**
  - *ISM Forms*
  - *Create requisitions / Confirm Delivery*
  - *Updating the planned maintenance*
  - *Crew records ( Joining, Signing off )*
  - *Payroll ( Overtime, Extras, bonuses*
- **Officers have controlled access to corporate information**
  - *SMS manuals*
  - *Order statuses / Deliveries planning / Fleet wide Inventories*
  - *Maintenance Job scheduling & fleet wide job statistics*
  - *Crew records, training, certificates, licenses etc*
  - *Payroll information, allotment status etc*
  - *Weather forecasts, optimal route calculations etc*
  - *etc*


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**Project Achievements**

- ✓ **Simplify Onboard IT systems**
- ✓ **Real time fleet management concept**
- ✓ **Corporate mentality**
- ✓ **On going crew training**
- ✓ **Ousourcing**
- ✓ **Control communication costs**
- ✓ **Improve seamen telephone and e-mail services**

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**Thank you....**

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